

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018243

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ G02F1/13357, H05B33/04, H05B33/14		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ G02F1/13357, H05B33/04, H05B33/14		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2004-45769 A (Toyota Industries Corp.), 12 February, 2004 (12.02.04), Full text; all drawings & EP 001380879 A & US 2004-0027518 A & CN 001482585 A	22-25, 32, 33, 43, 50-52 1-21, 26-31, 34-42, 44-49, 53-58
Y	JP 2000-267092 A (Seiko Epson Corp.), 29 September, 2000 (29.09.00), Page 4; Fig. 1 (Family: none)	1-21, 50-58
Y	JP 2004-55461 A (Seiko Epson Corp.), 19 February, 2004 (19.02.04), Page 6; Fig. 5 & EP 001385210 A2 & US 2004-0061121 A & CN 001477911 A	5-7, 26-31
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 17 February, 2005 (17.02.05)		Date of mailing of the international search report 08 March, 2005 (08.03.05)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-288983 A (Semiconductor Energy Laboratory Co., Ltd.), 10 October, 2003 (10.10.03), Claims & US 2003-018830 A	9-11, 34-36, 56
Y	JP 2004-25732 A (Fuji Photo Film Co., Ltd.), 29 January, 2004 (29.01.04), Pages 2, 3, 6 & US 2004-0058157 A	12-17, 37-42
Y	JP 7-181461 A (Matsushita Electric Industrial Co., Ltd.), 21 July, 1995 (21.07.95), Full text; all drawings (Family: none)	18-21, 47-49, 57, 58
Y	JP 10-96910 A (LG Electronics Inc.), 14 April, 1998 (14.04.98), Full text; all drawings & GB 009714682 A0 & DE 019730321 A0 & FR 002751434 A & GB 002315356 A & KR 000213968 A & US 006226062 B1	18-21, 47-49, 57, 58
Y	JP 2001-242456 A (Matsushita Electric Industrial Co., Ltd.), 07 September, 2001 (07.09.01), Full text; all drawings (Family: none)	18-21, 47-49, 57, 58
Y	JP 2001-255521 A (Fuji Xerox Co., Ltd.), 21 September, 2001 (21.09.01), Full text; all drawings (Family: none)	18-21, 47-49, 57, 58
Y	WO 000075718 A1 (Citizen Watch Co., Ltd.), 14 December, 2000 (14.12.00), Pages 25 to 28; Figs. 12, 13 & DE 060005775 D & EP 001111437 A1 & US 006693692 B & JP 003526453 B	43-46, 54

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The matter common to the inventions of claims 1-58 is an invention of claim 22. However, the search has revealed that the invention of claim 22 is not novel since it is disclosed in document JP 2004-45769 A (Toyota Industries Corp.), 12 February, 2004 (12.02.04), full text, all the figures. As a result the invention of claim 22 makes no contribution over the prior art and cannot be a special technical feature within the meaning of PCT Rule 13.2, second sentence.

Accordingly, there exists no matter common to all the inventions of claims 1-58.

(Continued to extra sheet)

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet(2)

Furthermore, the inventions of claims 1-58 are divided into the following groups of inventions/

Group I: claims 1, 3, 22, 23, 43-46, 50-54 relating to configuration of a liquid crystal panel and a manufacturing method thereof.

Group II: claims 2, 24 relating to the interval between the pixel electrodes and the interval between the third electrode and the pixel electrode.

Group III: claims 4-7, 25-32 relating to configuration of the reflection film.

Group IV: claims 8-11, 33-36, 55, 56 relating to the organic EL and a liquid crystal panel manufacturing method including a step of forming the organic light emitting element.

Group V: claims 12-17, 37-42 relating to a barrier film.

Group VI: claims 18-21, 47-49, 57, 58 relating to a pixel electrode, a transistor, a color filter; and a liquid crystal panel manufacturing method including a step of forming a transistor array layer and a step of forming the color filter.

Since there exists no other common feature which can be considered as a special technical feature within the meaning of PCT Rule 13.2, second sentence, no technical relationship within the meaning of PCT Rule 13 between the different groups of inventions can be seen.

Accordingly, it is obvious that the inventions of claims 1-58 do not satisfy the requirement of unity of invention.